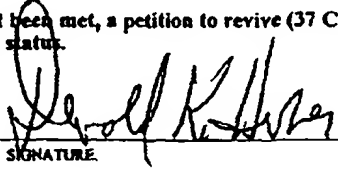


526 Rec'd PCT/PTO 03 AUG 2000

FORM PTO-130a (JULY 11-98) TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 6525-01WOUS
INTERNATIONAL APPLICATION NO. PCT/IB98/00167		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 09/601555
INTERNATIONAL FILING DATE February 11, 1998		PRIORITY DATE CLAIMED --
TITLE OF INVENTION DEVICE FOR PRODUCING CONCRETE BLOCKS		
APPLICANT(S) FOR DO/EO/US Turan Rodoslu and Tugsel Rodoslu		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11. to 16. below concern document(s) or information included: 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: - form PCT/IB/308		
"EXPRESS MAIL" MAILING LABEL NUMBER <u>EL424808107US</u> DATE OF DEPOSIT <u>August 3, 2000</u> I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231. <u>J. R. Holdsworth</u> (TYPED OR PRINTED NAME OF PERSON MAILING PAPER OR FEE) <u>[Signature]</u> (SIGNATURE OF PERSON MAILING PAPER OR FEE)		

09/601335		PCT/IB98/00167		ATTORNEY'S DOCKET NUMBER 6525-01WOUS	
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$760.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS PTO USE ONLY	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	- 20 =		X \$18.00	\$	
Independent claims	- 3 =		X \$78.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	840.00
Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				\$	
SUBTOTAL =				\$	840.00
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$	840.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	
TOTAL FEES ENCLOSED =				\$	840.00
				Amount to be:	\$
				refunded	\$
				charged	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>840.00</u> to cover the above fees is enclosed.					
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-0235</u> . A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO Donald K. Huber McCormick, Paulding & Huber LLP CityPlace II 185 Asylum Street Hartford, CT 06103-3402				<div style="text-align: center;">  SIGNATURE </div> <div style="text-align: center;"> <u>Donald K. Huber</u> NAME </div> <div style="text-align: center;"> <u>18,686</u> REGISTRATION NUMBER </div> <div style="text-align: center;"> <u>August 3, 2000</u> </div>	

Page 3, line 11, delete the sub-heading "Representation ...advantages" and substitute --SUMMARY OF THE INVENTION--.

Page 8, line 15, delete the sub-heading "Short ...drawings" and substitute --BRIEF DESCRIPTION OF THE DRAWINGS--

Page 9, line 8, delete the sub-heading "Best ... invention" and substitute --DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT--.

Pages 18 and 19, please delete these pages.

In the Claims

Claim 3 - line 1, delete "or 2".

Claim 4 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 5 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 6 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 8 - line 1, delete "or 7".

Claim 9 - line 1, delete "any of the claims 6 to 8" and substitute --claim 6--.

Claim 11 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 13 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 15 - line 1, delete "any of the preceding claims" and substitute --claim 1--.

Claim 17 - line 1, delete "or 16".

Claim 18 - line 1, delete "one of the claims 15 to 17" and substitute --claim 15--.

Claim 20 - line 1, delete "at least one of the claims 15 to 19-- and substitute --claim 15--.

Claim 23 - line 1, delete "or 22".

Claim 24 - line 1, delete "one of the claims 21 to 23" and substitute --claim 21--.

Claim 25 - line 1, delete "one of the claims 21 to 24" and substitute --claim 21--.

Claim 26 - line 1, delete "one of the claims 21 to 25" and substitute --claim 21--.

Claim 27 - line 1, delete "one of the claims 21 to 26" and substitute --claim 21--.

Claim 28 - line 1, delete "one of the claims 21 to 26" and substitute --claim 21--.

Claims

1. A device for fabricating concrete stones (100), especially kerbstones, paving stones and/or cast stones with two longitudinal sides (10, 12) at least partially bare at placing, which can be seen from a traffic route, especially for delimiting and/or marking traffic routes, whereby the device comprises a vibrating device for compacting a raw material mass (54, 56) in a mould,
characterized in
that the vibration device (200) shows at least one vibration transfer element (48) which grasps through at least one opening (62, 64) in the mould (22, 52, 58) and strikes against a diaphragm (60) covering the raw material mass (54, 56) in the mould (22, 52, 56) on at least one side.

2. A device according to claim 1,
characterized in
that openings (62, 64) are provided in the mould (22, 52, 58) in gravity direction above and below and respectively at least one vibration transfer element (48) correspondingly above and below grasps through a respective opening (62, 64), the raw material mass (54, 56) in the mould (22, 52, 58) being locked in gravity direction above and below by respectively one diaphragm (60) against which corresponding vibration transfer elements (48) strike above and below.

3. A device according to claim 1 or 2,
characterized in
that the vibration transfer element (48) is at least one rod.

4. A device according to ~~any of the preceding claims~~¹,
characterized in
that the diaphragm (60) is a metal plate.

5. A device according to ~~any of the preceding claims~~,
characterized in
that the diaphragm (60) is configured corresponding to a desired shape of
the concrete stone (100) to be fabricated.
6. A device according to ~~any of the preceding claims~~,
characterized in
that the vibrating device (200) comprises a frame (40, 42) in which a vibra-
ting element (44) is elastically positioned, the vibration transfer element
(48) being mechanically coupled with the vibrating element (44).
7. A device according to claim 6,
characterized in
that the vibrating element (44) shows a weight rotatable off-center on an
axle.
8. A device according to claim 6 ~~or 7~~,
characterized in
that the elastic bearing comprises several, especially six, springs (46)
and/or elastic plastic blocks which are placed between the frame (42) and
the vibrating element (44) for the bearing of the latter in the frame (42).
9. A device according to ~~any of the claims 6 to 8~~,
characterized in
that the frame (40) of the vibrating device (200) is elastically supported on
the mould (22, 52, 58) and/or the device.
10. A device according to claim 9,
characterized in
that the elastic bearing comprises at least one spring (50) and/or at least
one elastic plastic block which is (are) placed between the frame (40) and
a machine frame of the device and/or the mould (22, 52, 58).

11. A device according to ~~any of the preceding claims~~,
characterized in
that the vibrating device (200) is configured movable relative to the mould (22, 52, 58).
12. A device according to claim 11,
characterized in
that a rod (80) is placed on a frame (40) of the vibrating device.
13. A device according to ~~any of the preceding claims~~,
characterized in
that at least in the area of the vibrating device (200) roller bearings (66) are provided for on which the mould (22, 52, 58) rests, the roller bearings (66) being connected elastically positioned with the device.
14. A device according to claim 13,
characterized in
that the roller bearings (66) comprise a cylindrical body (68) which shows a cylindrical recess (70) on one side opposite the mould (22, 52, 58) in which a spring (72) is placed which rests on a machine frame of the device, whereby furthermore an incision (74) with a rectangular cross-section is configured on one side of the cylindrical body (68) turned to the mould (22, 52, 58), incision in which a roller (76) which carries the mould (22, 52, 58) is placed projecting over the cylinder.
15. A device according to ~~any of the preceding claims~~,
characterized by
a first station (20) which supplies base plates (22) from a base plate stack (22) the one after the other,

a second station (26) which applies a first natural uncoloured material, especially concrete, wet concrete or dry concrete, on the base plate (22),
 a third station (28) which applies a second coloured material, especially concrete, or a plastic material or a light reflecting material onto the base plate (22) with the first material and
 a fourth station (30) which pressurizes and/or vibrates the applied first and second material for forming a kerbstone (100).

16. A device according to claim 15,
 characterized in
 that a fifth station (32) is provided for in which green untreated concrete stones (100) are stacked on a wagon (34).
17. A device according to claim 15 ~~or 16~~,
 characterized in
 that the stations (24, 26, 28, 30, 32) are placed in a row and each supplying station of the first station (20) automatically conveys the base plates (22) which are respectively in the following stations one station further.
18. A device according to ~~one of the claims 15 to 17~~,
 characterized in
 that the base plates (22) form a bottom as a part of the mould (22, 52, 58).
19. A device according to claim 18,
 characterized in
 that the base plates (22) show at least one opening (64) for leading through at least one vibration transfer element (48).
20. A device according to ~~at least one of the claims 15 to 19~~,
 characterized in
 that the stations (24, 26, 28, 30, 32) are manually or automatically operated, especially computer controlled.

21. A method for fabricating concrete stones, especially kerbstones, paving stones and/or cast stones with two longitudinal sides at least partially bare at placing, which can be seen from a traffic route, especially for delimiting and/or marking traffic routes, whereby the device comprises a vibrating device for compacting a raw material mass in a mould, characterized by the following steps,
- a) Placement of a moulding box on a base plate with a first funnel-shaped filling element,
 - b) Filling of a first raw material mass into the moulding box,
 - c) Removal of the first funnel-shaped filling element and placement of a second funnel-shaped filling element, the filling cross-section of which is bigger than that of the first funnel-shaped filling element,
 - d) Filling of a second raw material mass into the moulding box,
 - e) Placement of a diaphragm into the moulding box on the second raw material mass,
 - f) Loading of the diaphragm with vibration energy.
22. A method according to claim 21, characterized by the following additional step after step (a),
- (a1) Placement of a diaphragm in the moulding box on the base plate whereby in step (f) this diaphragm is also loaded with vibration energy.
23. A method according to claim 21 ~~or 22~~, characterized by the following additional step after step (e),
- (e1) Placement of a moulding part or a moulding punch on the diaphragm.
24. A method according to ~~one of the claims 21 to 23~~, characterized in that in step (d) the second raw material mass is placed on the first raw material mass and on at least one side between the first raw material mass and a wall of the moulding box.

25. A method according to ~~one of the claims 21 to 24~~,
characterized in
that the first raw material mass is fabricated of a mixture of Portland cement, water and aggregate, especially sand.
26. A method according to ~~one of the claims 21 to 25~~,
characterized in
that the mixture of the first raw material mass is fabricated of the constituents Portland cement, water and aggregate in the ratio 120 : 37 : 180 or in any other appropriate ratio.
27. A method according to ~~one of the claims 21 to 26~~,
characterized in
that the second raw material mass is fabricated of a mixture of white cement, water, pigment and aggregate, especially sand.
28. A method according to ~~one of the claims 21 to 26~~,
characterized in
that the mixture of the second raw material mass is fabricated of the constituents white cement, pigment, water and aggregate in the ratio 23 : 1,15 : 9,5 : 35 or any other appropriate ratio.